

2SC2735

DESCRIPTION

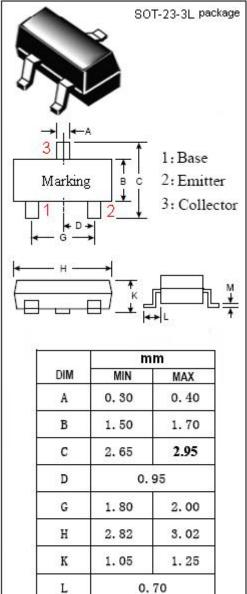
- Silicon NPN epitaxial type
- · Local oscillator wide band amplifier
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Designed for use in UHF/VHF frequency converters

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	30	V				
V _{CEO}	Collector-Emitter Voltage	20	V				
V _{EBO}	Emitter-Base Voltage	3	V				
lc	Collector Current-Continuous	50	mA				
Pc	Collector Power Dissipation @T _c =25°C	0.15	W				
TJ	Junction Temperature	150	°C				
T _{stg}	Storage Temperature Range	-55~150	°C				



M

0.10

0.20



isc Silicon NPN Transistor

2SC2735

ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 20mA ; I _B = 4mA			1.0	V
І _{сво}	Collector Cutoff Current	V _{CB} = 10V; I _E = 0			0.5	μA
hfe	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	40			
f _T	Current-Gain—Bandwidth Product	I _C = 10mA ; V _{CE} = 10V		1200		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f= 1.0MHz			1.5	pF
CG	Conversion Gain	VCC=12V,IC=2mA;f=200MHz; fosc=230MHz;		21		dB
NF	Noise Figure	VCC=12V,IC=2mA;f=200MHz; fosc=230MHz;		6.5		dB

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